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## CORRECTED NOTICE OF ALLOWANCE AND FEE(S) DUE

24228

7590

12/16/2003

EXAMINER MONESTIME, MACKLY

MARKISON & RECKAMP, PC PO BOX 06229

WACKER DR

CHICAGO, IL 60606-0229

PAPER NUMBER

ART UNIT 2676

DATE MAILED: 12/16/2003

| 1 | APPLICATION NO. | FILING DA  | TE. | FIRST NAMED INVENTOR    | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|------------|-----|-------------------------|---------------------|------------------|
| ı |                 | . 04/21/20 | 00  | <br>Michael Andrew Mang | 0100.0000600        | 6793             |
|   | 09/556,472      | 04/21/20   | UU  | Whichael Andrew White   |                     |                  |

TITLE OF INVENTION: VECTOR ENGINE WITH PRE-ACCUMULATION BUFFER AND METHOD THEREFORE

| APPLN, TYPE    | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO           | \$1330    | \$0             | \$1330           | 03/16/2004 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee publications.

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 7590 12/16/2003 24228 Certificate of Mailing or Transmission MARKISON & RECKAMP, PC I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. PO BOX 06229 WACKER DR CHICAGO, IL 60606-0229 (Depositor's name) (Signature) (Date CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 0100.0000600 Michael Andrew Mang 04/21/2000 09/556.472 TITLE OF INVENTION: VECTOR ENGINE WITH PRE-ACCUMULATION BUFFER AND METHOD THEREFORE TOTAL FEE(S) DUE DATE DUE PUBLICATION FEE ISSUE FEE SMALL ENTITY APPLN. TYPE 03/16/2004 \$1330 \$1330 NO nonprovisional CLASS-SUBCLASS ART UNIT EXAMINER 345-556000 2676 MONESTIME, MACKLY 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE u individual u corporation or other private group entity u government Please check the appropriate assignee category or categories (will not be printed on the patent); 4b. Payment of Fee(s): 4a. The following fee(s) are enclosed: □ A check in the amount of the fee(s) is enclosed. ☐ Issue Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Publication Fee U The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Denosit Account Number (enclose an extra copy of this form). ☐ Advance Order - # of Copies \_ Deposit Account Number Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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### United States Patent and Trademark Office

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| APPLICATION NO.           | FILING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------|-----------------|----------------------|---------------------|------------------|
| 09/556,472 04/21/2000     |                 | Michael Andrew Mang  | 0100.0000600        | 6793             |
| 24228                     | 7590 12/16/2003 |                      | EXAM                | INER             |
|                           | RECKAMP, PC     | MONESTIME, MACKLY    |                     |                  |
| PO BOX 06229<br>WACKER DR |                 |                      | ART UNIT            | PAPER NUMBER     |
| CHICAGO, IL 60            | 0606-0229       | 2676                 |                     |                  |

DATE MAILED: 12/16/2003

#### Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

|                                                                                                                                                                                                                                                                                            | Application No.                                                                                                            | Applicant(s)                                                                                           |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--|--|--|
| Alada a f Allacoalitida                                                                                                                                                                                                                                                                    | 09/556,472                                                                                                                 | MANG ET AL.                                                                                            |  |  |  |
| Notice of Allowability                                                                                                                                                                                                                                                                     | Examiner                                                                                                                   | Art Unit                                                                                               |  |  |  |
|                                                                                                                                                                                                                                                                                            | Mackly Monestime                                                                                                           | 2676                                                                                                   |  |  |  |
|                                                                                                                                                                                                                                                                                            | Mackly Monestime                                                                                                           | 2070                                                                                                   |  |  |  |
| The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to                 | plication. If not included will be mailed in due course. <b>THIS</b>                                   |  |  |  |
| 1. This communication is responsive to <u>5/29/03</u> .                                                                                                                                                                                                                                    |                                                                                                                            |                                                                                                        |  |  |  |
| 2. The allowed claim(s) is/are <u>1-14</u> .                                                                                                                                                                                                                                               |                                                                                                                            |                                                                                                        |  |  |  |
| 3. The drawings filed on are accepted by the Examine                                                                                                                                                                                                                                       | r.                                                                                                                         |                                                                                                        |  |  |  |
| 4. ☐ Acknowledgment is made of a claim for foreign priority unc<br>a) ☐ All b) ☐ Some* c) ☐ None of the:                                                                                                                                                                                   | ler 35 U.S.C. § 119(a)-(d) or (f).                                                                                         |                                                                                                        |  |  |  |
| <ol> <li>Certified copies of the priority documents have</li> </ol>                                                                                                                                                                                                                        | been received.                                                                                                             |                                                                                                        |  |  |  |
| 2.  Certified copies of the priority documents have                                                                                                                                                                                                                                        | been received in Application No                                                                                            | ·                                                                                                      |  |  |  |
| 3. Copies of the certified copies of the priority do                                                                                                                                                                                                                                       | 3. Copies of the certified copies of the priority documents have been received in this national stage application from the |                                                                                                        |  |  |  |
| International Bureau (PCT Rule 17.2(a)).                                                                                                                                                                                                                                                   |                                                                                                                            |                                                                                                        |  |  |  |
| * Certified copies not received:                                                                                                                                                                                                                                                           |                                                                                                                            |                                                                                                        |  |  |  |
| 5. Acknowledgment is made of a claim for domestic priority un                                                                                                                                                                                                                              | nder 35 U.S.C. § 119(e) (to a provisi                                                                                      | onal application).                                                                                     |  |  |  |
| (a) The translation of the foreign language provisional a                                                                                                                                                                                                                                  | pplication has been received.                                                                                              |                                                                                                        |  |  |  |
| 6. Acknowledgment is made of a claim for domestic priority un                                                                                                                                                                                                                              | nder 35 U.S.C. §§ 120 and/or 121.                                                                                          |                                                                                                        |  |  |  |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of                                                                                                                                                                        |                                                                                                                            |                                                                                                        |  |  |  |
| 7. A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which gives reas                                                                                                                                                                                     |                                                                                                                            |                                                                                                        |  |  |  |
| 8. CORRECTED DRAWINGS must be submitted.                                                                                                                                                                                                                                                   | •                                                                                                                          |                                                                                                        |  |  |  |
| (a) including changes required by the Notice of Draftsper                                                                                                                                                                                                                                  | son's Patent Drawing Review ( PTO                                                                                          | -948) attached                                                                                         |  |  |  |
| 1) ☐ hereto or 2) ☐ to Paper No                                                                                                                                                                                                                                                            |                                                                                                                            |                                                                                                        |  |  |  |
| (b) including changes required by the proposed drawing of                                                                                                                                                                                                                                  | correction filed, which has b                                                                                              | een approved by the Examiner.                                                                          |  |  |  |
| (c) ☐ including changes required by the attached Examiner                                                                                                                                                                                                                                  |                                                                                                                            |                                                                                                        |  |  |  |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet.                                                                                                                                                                                                               |                                                                                                                            |                                                                                                        |  |  |  |
| 9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T                                                                                                                                                                                    |                                                                                                                            |                                                                                                        |  |  |  |
| Attachment(s)                                                                                                                                                                                                                                                                              |                                                                                                                            |                                                                                                        |  |  |  |
| <ul> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statements (PTO-1449), Paper No</li> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>             | 4□ Interview Summ<br>6□ Examiner's Ame                                                                                     | al Patent Application (PTO-152) ary (PTO-413), Paper No andment/Comment ement of Reasons for Allowance |  |  |  |
|                                                                                                                                                                                                                                                                                            |                                                                                                                            |                                                                                                        |  |  |  |

Serial Number: 09/556,472 Page 2

Art Unit: 2676

#### Reasons for allowance

The following is an examiner's statement of reasons for allowance:

The prior art of record further failed to teach or disclose either singularly or in combination a circuit comprising: a first and a second operation unit, a pre-accumulation register coupled to the first operation unit and a memory coupled to the second operation unit. Each independent claim identifies the uniquely distinct features: "a selection block coupled to the memory, the second operation unit, the pre-accumulation and the first operation unit, wherein the selection block selects a second operand of the third set of operands from a set of potential operands, wherein the set of potential operands includes the second operation result, the buffered first operation result stored in the pre-accumulation register, and data stored in at least one of the plurality of memory locations of the memory, and wherein the selection block selects the second operand of the third set of operands based on operand selection information included in an operational code received by the circuit" (as per claims 1 and 6). The totality of the combination of elements recited in the present claims invention were not found to be anticipated, suggested or made obvious by the prior art of record.

The prior art of record further failed to teach or disclose either singularly or in combination a method for executing operation codes in a computer block, wherein the method comprises the uniquely distinct steps of: "selecting a first operand of a third set of potential operands that includes the buffered first operation result, wherein selecting the first operand of the

Serial Number: 09/556,472

Art Unit: 2676

third set of operands occurs during a third cycle, wherein selecting the first operand of the third

set of operands is based on a current operation code; and combining the second result and the

buffered first operation result using a second operation unit during the third cycle to produce a

third operation result" (as per claim 12). These distinct features of the present claims invention

were not found to be anticipated, suggested or made obvious by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of

the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such

submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Mackly Monestime whose telephone number is (703) 305-3855. The

examiner can normally be reached on Monday to Thursday from 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Bella Matthew, can be reached on (703) 308-6829.

Any response to this action should be mailed to:

Commissioner of Patent and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Page 3

Serial Number: 09/556,472

Art Unit: 2676

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, Va, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Mackly Monestime

June 11, 2003

MATTHEW C. BELLA SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2600** 

Marker (. Bella

Page 4